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? b biosci

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\$0.00 0.206 DialUnits FileHomeBase
\$0.00 Estimated cost FileHomeBase
\$0.03 TELNET
\$0.03 Estimated cost this search
\$0.03 Estimated total session cost 0.206 DialUnits

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File 5:Biosis Previews(R) 1969-2004/Nov W1
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(c) 2004 The HW Wilson Co.
File 110:WasteInfo 1974-2002/Jul
(c) 2002 AEA Techn Env.
***File 110: This file is closed (no updates)**
File 135:NewsRx Weekly Reports 1995-2004/Nov W1
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File 143:Biol. & Agric. Index 1983-2004/Aug
(c) 2004 The HW Wilson Co
File 144:Pascal 1973-2004/Nov W1
(c) 2004 INIST/CNRS
File 155:MEDLINE(R) 1951-2004/Nov W2
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(c) 2004 BLHCIS
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numbers have changed. See HELP NEWS185.

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File 370:Science 1996-1999/Jul W3

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***File 370: This file is closed (no updates). Use File 47 for more current**

information.

File 391:Beilstein Reactions July 2004

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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 1998 Inst for Sci Info

File 467:ExtraMED(tm) 2000/Dec

(c) 2001 Informania Ltd.

***File 467: F467 no longer updates; see Help News467.**

7.

Set	Items	Description
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? s	beta-N-methylamino-L-alanine	
S1	85	BETA-N-METHYLAMINO-L-ALANINE
? s	alzheim? or amyloi?	
	292575	ALZHEIM?
	179783	AMYLOI?
S2	398914	ALZHEIM? OR AMYLOI?
? s	s1 and s2	
	85	S1
	398914	S2
S3	8	S1 AND S2
? t	s3/3,k/all	

3/3,K/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0006332729 BIOSIS NO.: 198936041620

NEURODEGENERATIVE NEUROTOXINS AND DISEASES OF THE BASAL GANGLIA

BOOK TITLE: SINGER, T. P., N. CASTAGNOLI AND C. C. WANG (ED.).

MOLECULAR

BASIS OF THE ACTION OF DRUGS AND TOXIC SUBSTANCES; INTERNATIONAL

SYMPOSIUM, SAN FRANCISCO, CALIFORNIA, USA, APRIL 23-26, 1987. X+248P.

WALTER DE GRUYTER AND CO.: BERLIN, WEST GERMANY; NEW YORK, NEW YORK, USA.

1ILLUS

AUTHOR: LANGSTON J W (Reprint)

AUTHOR ADDRESS: INST MED RES, 2260 CLOVE DRIVE, SAN JOSE, CALIF, USA
95128

**USA

p1-13 1988

ISBN: 3-11-011290-6; 0-89925-350-4

DOCUMENT TYPE: Book; Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

...REGISTRY NUMBERS: BETA-N-METHYLAMINO-L-ALANINE

...DESCRIPTORS: BETA-N METHYLAMINO-L-ALANINE 1 METHYL-4-PHENYL-1 2 3
6-TETRAHYDROPYRIDINE DEMENTIA **ALZHEIMER** 'S DISEASE PARKINSON'S DISEASE
HUNTINGTON'S CHOREA STRIATONIGRAL DEGENERATION

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... **BETA-N-METHYLAMINO-L-ALANINE**

3/3,K/2 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0005873611 BIOSIS NO.: 198834102502

**AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSON'S DISEASE COMPLEX ON GUAM
LINKED TO AN ENVIRONMENTAL NEUROTOXIN**

AUTHOR: KURLAND L T (Reprint)

AUTHOR ADDRESS: DEP HEALTH SCI RES, MAYO CLIN AND MAYO FOUND,
ROCHESTER, MN

55905, USA**USA

JOURNAL: Trends in Neurosciences 11 (2): p51-54 1988

ISSN: 0166-2236

DOCUMENT TYPE: Article

RECORD TYPE: Citation

LANGUAGE: ENGLISH

...REGISTRY NUMBERS: **BETA-N-METHYLAMINO-L-ALANINE**

DESCRIPTORS: CYCAS-CIRCINALIS HUMAN CYCASIN BETA-N METHYLAMINO-L-
ALANINE

ALZHEIMER 'S DISEASE FOOD MEDICINE

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... **BETA-N-METHYLAMINO-L-ALANINE**

3/3,K/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0005725226 BIOSIS NO.: 198784079375

**GUAM AMYOTROPHIC LATERAL SCLEROSIS-PARKINSONISM-DEMENTIA LINKED TO A
PLANT**

EXCITANT NEUROTOXIN

AUTHOR: SPENCER P S (Reprint); NUNN P B; HUGON J; LUDOLPH A C; ROSS S
M;

ROY D N; ROBERTSON R C

AUTHOR ADDRESS: INST NEUROTOXICOL, DEP NEUROSCI NEUROL PATHOL, ALBERT
EINSTEIN COLL MED, 1300 MORRIS PARK AVE, BRONX, NY 10461, USA**USA

JOURNAL: Science (Washington D C) 237 (4814): p517-522 1987

ISSN: 0036-8075

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: The decline in the high incidence of amyotrophic lateral
sclerosis, parkinsonism, and **Alzheimer** -type dementia among the
Chamorro

population of the western Pacific islands of Guam and Rota...

...REGISTRY NUMBERS: **BETA-N-METHYLAMINO-L-ALANINE**

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: **BETA-N-METHYLAMINO-L-ALANINE**

3/3,K/4 **(Item 4 from file: 5)**
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0005495936 BIOSIS NO.: 198733102541
**PRIMATE MOTOR-SYSTEM DISEASE INDUCED BY THE CYCAD NEUROTOXIN BETA-N
METHYLAMINO-L-ALANINE BMAA**
AUTHOR: SPENCER P S (Reprint); NUNN P B; HUGON J; LUDOLPH A C;
ROBERTSON R
C; ROSS S M; ROY D J
AUTHOR ADDRESS: ALBERT EINSTEIN COLL MED, NEW YORK, USA**USA
JOURNAL: Neuroscience 22 (SUPPL): pS292 1987
CONFERENCE/MEETING: SECOND WORLD CONGRESS OF NEUROSCIENCE, BUDAPEST,
HUNGARY, AUGUST 16-21, 1987. NEUROSCIENCE.
ISSN: 0306-4522
DOCUMENT TYPE: Meeting
RECORD TYPE: Citation
LANGUAGE: ENGLISH

...REGISTRY NUMBERS: **BETA-N-METHYLAMINO-L-ALANINE**
DESCRIPTORS: ABSTRACT HUMAN MACACA N METHYL-D-ASPARTATE AGONIST AP7
PARKINSONISM **ALZHEIMER 'S DISEASE**
DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: **BETA-N-METHYLAMINO-L-ALANINE**

3/3,K/5 **(Item 1 from file: 34)**
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

11052220 Genuine Article#: 601GR No. References: 56
**Title: The cycad neurotoxic amino acid, beta-N-methylamino-L-alanine
(BMAA), elevates intracellular calcium levels in dissociated rat
brain
cells**
Author(s): Brownson DM; Mabry TJ (REPRINT) ; Leslie SW
Corporate Source: Univ Texas,Sch Biol Sci, Dept Bot,Austin//TX/78712
(REPRINT); Univ Texas,Sch Biol Sci, Dept Bot,Austin//TX/78712; Univ
Texas,Coll Pharm, Div Pharmacol & Toxicol,Austin//TX/78712; Univ
Texas,Inst Neurosci,Austin//TX/78712
Journal: JOURNAL OF ETHNOPHARMACOLOGY, 2002, V82, N2-3 (OCT), P159-167
ISSN: 0378-8741 Publication date: 20021000
Publisher: ELSEVIER SCI IRELAND LTD, CUSTOMER RELATIONS MANAGER, BAY
15,
SHANNON INDUSTRIAL ESTATE CO, CLARE, IRELAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: is a complex of amyotrophic lateral sclerosis and
parkinsonism
dementia complex with additional symptoms of **Alzheimer 's**. It is
well
known that Ca2+ elevations in brain cells can lead to cell...

3/3,K/6 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

06133404 Genuine Article#: XX057 No. References: 55

**Title: The dietary excitotoxins beta-N-methylamino-L-alanine and
beta-N-oxalylamino-L-alanine induce necrotic- and apoptotic-like
death
of rat cerebellar granule cells**

Author(s): Staton PC; Bristow DR (REPRINT)

Corporate Source: UNIV MANCHESTER, SCH BIOL SCI, DIV NEUROSCI, 1-124
STOPFORD BLDG/MANCHESTER M13 9PT/LANCS/ENGLAND/ (REPRINT); UNIV
MANCHESTER, SCH BIOL SCI, DIV NEUROSCI/MANCHESTER M13
9PT/LANCS/ENGLAND/

Journal: JOURNAL OF NEUROCHEMISTRY, 1997, V69, N4 (OCT), P1508-1518

ISSN: 0022-3042 Publication date: 19971000

Publisher: LIPPINCOTT-RAVEN PUBL, 227 EAST WASHINGTON SQ, PHILADELPHIA,
PA

19106

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Research Fronts: APOPTOTIC BODIES)

95-4227 001 (ACTIVATION OF METABOTROPIC GLUTAMATE RECEPTORS
PROTECTS

CULTURED NEURONS; APOPTOSIS IN **ALZHEIMERS** -DISEASE; RAT CORTEX)

3/3,K/7 (Item 1 from file: 71)

DIALOG(R)File 71:ELSEVIER BIOBASE

(c) 2004 Elsevier Science B.V. All rts. reserv.

02182266 2002262257

**The cycad neurotoxic amino acid, beta-N-methylamino-L-alanine (EMAA),
elevates intracellular calcium levels in dissociated rat brain cells**

Brownson D.M.; Mabry T.J.; Leslie S.W.

ADDRESS: T.J. Mabry, Department of Botany, School of Biological
Sciences,

University of Texas, Austin, TX 78712, United States

EMAIL: mabry@mail.utexas.edu

Journal: Journal of Ethnopharmacology, 82/2-3 (159-167), 2002, Ireland

CODEN: JOETD

ISSN: 0378-8741

PUBLISHER ITEM IDENTIFIER: S0378874102001708

DOCUMENT TYPE: Article

LANGUAGES: English SUMMARY LANGUAGES: English

NO. OF REFERENCES: 56

...is a complex of amyotrophic lateral sclerosis and parkinsonism
dementia

complex with additional symptoms of **Alzheimer** 's. It is well known
that

CaSUP2+ elevations in brain cells can lead to cell...

DESCRIPTORS:

beta-N-Methylamino-L-alanine ; Excitatory amino acids; Neurotoxicity;
Fura-2 dye; Calcium; Amyotrophic lateral sclerosis...

3/3,K/8 (Item 1 from file: 434)
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci
(c) 1998 Inst for Sci Info. All rts. reserv.

09708816 Genuine Article#: AP852 No. References: 37
Title: **NEUROTOXICITY OF BETA-N-METHYLAMINO-L-ALANINE (BMAA) AND
BETA-N-OXALYLAMINO-L-ALANINE (BOAA) ON CULTURED CORTICAL-NEURONS**
Author(s): WEISS JH; KOH JY; CHOI DW
Corporate Source: STANFORD UNIV,MED CTR,DEPT NEUROL/STANFORD//CA/94305
Journal: BRAIN RESEARCH, 1989, V497, N1, P64-71
Language: ENGLISH Document Type: ARTICLE

...Research Fronts: D-ASPARTATE; LONG-TERM POTENTIATION)
87-1103 001 (NUCLEUS BASALIS MAGNOCELLULARIS CHOLINERGIC NEURONS;
PLAQUES OF **ALZHEIMERS** -DISEASE; RAT CEREBRAL-CORTEX CAUSES
DEFICITS IN
PASSIVE-AVOIDANCE LEARNING)
87-3668 001 (UPTAKE OF...
? t s3/9

3/9/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0006332729 BIOSIS NO.: 198936041620
NEURODEGENERATIVE NEUROTOXINS AND DISEASES OF THE BASAL GANGLIA
BOOK TITLE: SINGER, T. P., N. CASTAGNOLI AND C. C. WANG (ED.).
MOLECULAR
BASIS OF THE ACTION OF DRUGS AND TOXIC SUBSTANCES; INTERNATIONAL
SYMPOSIUM, SAN FRANCISCO, CALIFORNIA, USA, APRIL 23-26, 1987. X+248P.
WALTER DE GRUYTER AND CO.: BERLIN, WEST GERMANY; NEW YORK, NEW YORK,
USA.

ILLUS
AUTHOR: LANGSTON J W (Reprint)
AUTHOR ADDRESS: INST MED RES, 2260 CLOVE DRIVE, SAN JOSE, CALIF, USA
95128
**USA
p1-13 1988
ISBN: 3-11-011290-6; 0-89925-350-4
DOCUMENT TYPE: Book; Meeting
RECORD TYPE: Citation
LANGUAGE: ENGLISH
REGISTRY NUMBERS: 89-00-9: QUINOLINIC ACID; 15920-93-1:
BETA-N-METHYLAMINO-L-ALANINE ; 28289-54-5: 1-METHYL-4-PHENYL-1 2 3
6-TETRAHYDROPYRIDINE
DESCRIPTORS: REVIEW HUMAN ANIMAL NEURON LOCUS CERULEUS INCLUSION BODY
QUINOLINIC ACID EXCITATORY AMINO ACIDS BETA-N METHYLAMINO-L-ALANINE 1
METHYL-4-PHENYL-1 2 3 6-TETRAHYDROPYRIDINE DEMENTIA **ALZHEIMER** 'S
DISEASE
PARKINSON'S DISEASE HUNTINGTON'S CHOREA STRIATONIGRAL DEGENERATION
DESCRIPTORS:
MAJOR CONCEPTS: Behavior; Genetics; Geriatrics--Human Medicine,
Medical
Sciences; Human Ecology--Anthropology; Neurology--Human Medicine,
Medical Sciences; Pharmacology; Psychiatry--Human Medicine, Medical
Sciences; Toxicology
BIOSYSTEMATIC NAMES: Animalia--Animalia; Hominidae--Primates,

Mammalia,
Vertebrata, Chordata, Animalia
COMMON TAXONOMIC TERMS: Animals; Chordates; Humans; Mammals;
Primates;
Vertebrates
CHEMICALS & BIOCHEMICALS: QUINOLINIC ACID;
BETA-N-METHYLAMINO-L-ALANINE ; 1-METHYL-4-PHENYL-1 2 3
6-TETRAHYDROPYRIDINE

? s rn=15920-93-1
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
S1 86 RN=15920-93-1

? ds

Set	Items	Description
S1	86	RN=15920-93-1

? s amyloi?

S2 230557 AMYLOI?

? s s1 and s2

86 S1

230557 S2

S3 0 S1 AND S2

? s alzheim?

S4 375969 ALZHEIM?

? s s1 and s4

86 S1

375969 S4

S5 4 S1 AND S4

? t s5/3,k/all

5/3,K/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0006332729 BIOSIS NO.: 198936041620

NEURODEGENERATIVE NEUROTOXINS AND DISEASES OF THE BASAL GANGLIA

BOOK TITLE: SINGER, T. P., N. CASTAGNOLI AND C. C. WANG (ED.).

MOLECULAR

BASIS OF THE ACTION OF DRUGS AND TOXIC SUBSTANCES; INTERNATIONAL
SYMPOSIUM, SAN FRANCISCO, CALIFORNIA, USA, APRIL 23-26, 1987. X+248P.

WALTER DE GRUYTER AND CO.: BERLIN, WEST GERMANY; NEW YORK, NEW YORK,
USA.

1ILLUS

AUTHOR: LANGSTON J W (Reprint)

AUTHOR ADDRESS: INST MED RES, 2260 CLOVE DRIVE, SAN JOSE, CALIF, USA
95128

**USA

p1-13 1988

ISBN: 3-11-011290-6; 0-89925-350-4

DOCUMENT TYPE: Book; Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

...REGISTRY NUMBERS: 15920-93-1

...DESCRIPTORS: BETA-N METHYLAMINO-L-ALANINE 1 METHYL-4-PHENYL-1 2 3

6-TETRAHYDROPYRIDINE DEMENTIA ALZHEIMER 'S DISEASE PARKINSON'S DISEASE

HUNTINGTON'S CHOREA STRIATONIGRAL DEGENERATION

5/3,K/2 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0005873611 BIOSIS NO.: 198834102502

**AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSON'S DISEASE COMPLEX ON GUAM
LINKED TO AN ENVIRONMENTAL NEUROTOXIN**

AUTHOR: KURLAND L T (Reprint)

AUTHOR ADDRESS: DEP HEALTH SCI RES, MAYO CLIN AND MAYO FOUND,
ROCHESTER, MN

55905, USA**USA

JOURNAL: Trends in Neurosciences 11 (2): p51-54 1988

ISSN: 0166-2236

DOCUMENT TYPE: Article

RECORD TYPE: Citation

LANGUAGE: ENGLISH

...REGISTRY NUMBERS: 15920-93-1

DESCRIPTORS: CYCAS-CIRCINALIS HUMAN CYCASIN BETA-N METHYLAMINO-L-
ALANINE

ALZHEIMER 'S DISEASE FOOD MEDICINE

5/3,K/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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0005725226 BIOSIS NO.: 198784079375

**GUAM AMYOTROPHIC LATERAL SCLEROSIS-PARKINSONISM-DEMENTIA LINKED TO A
PLANT**

EXCITANT NEUROTOXIN

AUTHOR: SPENCER P S (Reprint); NUNN P B; HUGON J; LUDOLPH A C; ROSS S
M;

ROY D N; ROBERTSON R C

AUTHOR ADDRESS: INST NEUROTOXICOL, DEP NEUROSCI NEUROL PATHOL, ALBERT
EINSTEIN COLL MED, 1300 MORRIS PARK AVE, BRONX, NY 10461, USA**USA

JOURNAL: Science (Washington D C) 237 (4814): p517-522 1987

ISSN: 0036-8075

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: The decline in the high incidence of amyotrophic lateral
sclerosis, parkinsonism, and **Alzheimer** -type dementia among the
Chamorro

population of the western Pacific islands of Guam and Rota...

REGISTRY NUMBERS: 15920-93-1 ...

5/3,K/4 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0005495936 BIOSIS NO.: 198733102541

**PRIMATE MOTOR-SYSTEM DISEASE INDUCED BY THE CYCAD NEUROTOXIN BETA-N
METHYLAMINO-L-ALANINE BMAA**

AUTHOR: SPENCER P S (Reprint); NUNN P B; HUGON J; LUDOLPH A C;
ROBERTSON R

C; ROSS S M; ROY D J

AUTHOR ADDRESS: ALBERT EINSTEIN COLL MED, NEW YORK, USA**USA

JOURNAL: Neuroscience 22 (SUPPL): pS292 1987

CONFERENCE/MEETING: SECOND WORLD CONGRESS OF NEUROSCIENCE, BUDAPEST,
HUNGARY, AUGUST 16-21, 1987. NEUROSCIENCE.

ISSN: 0306-4522

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

REGISTRY NUMBERS: 15920-93-1 ...

DESCRIPTORS: ABSTRACT HUMAN MACACA N METHYL-D-ASPARTATE AGONIST AP7
PARKINSONISM **ALZHEIMER** 'S DISEASE

S8 11 RD (unique items)
? t s8/3,k/all

8/3,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014835315 BIOSIS NO.: 200400202948

Cholesterol beta - D - Glucoside: a novel putative causal factor in ALS

-

PDC.

AUTHOR: Khabazian I (Reprint); Kyu Ryu J; Nagai A; Kim S U; Shaw C A
(Reprint)

AUTHOR ADDRESS: Dept. Ophthalmol, Univ. British Columbia, Vancouver, BC,
Canada**Canada

JOURNAL: Society for Neuroscience Abstract Viewer and Itinerary Planner
2003 pAbstract No. 630.14 2003 2003

MEDIUM: e-file

CONFERENCE/MEETING: 33rd Annual Meeting of the Society of Neuroscience
New

Orleans, LA, USA November 08-12, 2003; 20031108

SPONSOR: Society of Neuroscience

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: disease to the environmental toxins in the seeds of *Cycas
circinalis* (1). Extracted toxins from **cycad** flour on cortical
slices in

an in vitro preparation led to glutamate release and cell death (2,
3).

Mice fed with **cycad** flour showed both cognitive and motor deficits
resembling ALS-PDC (4). The extracted toxins were...

...their growth and morphology. Fluorescent immunocytochemical labeling
against cytosolic proteins Caspase-3, HSP-70, PHF- **Tau** , and
GLT-1betawere measured in relation to time and to each other. We also
assessed...

...and stands in the opposite side of the spectrum. The expression of GLT-1beta and PHF- Tau seem to take place somewhere in between activation time of HSP-70 and Caspase-3...

8/3,K/2 (Item 2 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
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0013390433 BIOSIS NO.: 200100562272

**Histological assessment of cytotoxicity due to cycad feeding in mice:
Implications for ALS-PDC**

AUTHOR: Wilson J M B (Reprint); Wong M C; Seyedalikhani A (Reprint);
Pasqualotto B A; Shaw C A

AUTHOR ADDRESS: Psychology, University of British Columbia, Vancouver,
BC,

Canada**Canada

JOURNAL: Society for Neuroscience Abstracts 27 (2): p1735 2001 2001

MEDIUM: print

CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience
San Diego, California, USA November 10-15, 2001; 20011110

ISSN: 0190-5295

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

**Histological assessment of cytotoxicity due to cycad feeding in mice:
Implications for ALS-PDC**

ABSTRACT: Consumption of **cycad** seed products (*Cycas circinalis*) has been

implicated as a causative factor to the Guamanian neurological disorder,

ALS-PDC. Using in vitro rat cortical slice assays, we demonstrated that

washed **cycad** contains a cytotoxic sterol glucoside; this molecule causes glutamate release leading to activation of NMDA...

...In vivo studies in mice have shown cognitive and motor behavioural deficits following consumption of **cycad** flour (Wilson et al.,

2001). We

performed a series of histological studies designed to link...

...vitro toxicity to in vivo evidence of CNS dysfunction. Adult male mice

were fed washed **cycad** flour then sacrificed following 7 weeks of behavioural testing. TUNEL, caspase-3, HSP-70 and **tau** assays were performed in search for evidence of neurodegeneration. Anti- **tau** immunolabeling (cortex and hippocampus) was 2X more abundant in **cycad**

fed-mice. In **cycad** -fed mice, TUNEL labeled cells were found in cortex,

hippocampus, spinal cord and substantia nigra...

...regions of CNS. Anti-activated Caspase-3 immunostaining was found in

the

SN of one **cycad** -fed animal. These findings support the view that the

cytotoxic effects of **cycad** flour is the basis of the behavioral deficits observed in **cycad** -fed mice and the hypothesis that the etiology of Guamanian ALS-PDC involves ingestion of a toxin in **cycad** flour.

DESCRIPTORS:

MISCELLANEOUS TERMS: **cycad** flour...

8/3,K/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0011881607 BIOSIS NO.: 199900141267

The Guam cycad toxin methylazoxymethanol damages neuronal DNA and modulates Tau mRNA expression and excitotoxicity

AUTHOR: Esclaire Françoise (Reprint); Kisby Glen; Spencer Peter; Milne John

; Lesort Mathieu (Reprint); Hugon Jacques (Reprint)

AUTHOR ADDRESS: Dep. Histol. Cell. Biol., ERS CNRS 6101, Fac. Med., Univ.

Limoges, 87025 Limoges, France**France

JOURNAL: Experimental Neurology 155 (1): p11-21 Jan., 1999 1999

MEDIUM: print

ISSN: 0014-4886

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

The Guam cycad toxin methylazoxymethanol damages neuronal DNA and modulates Tau mRNA expression and excitotoxicity

...ABSTRACT: sclerosis (ALS) and Parkinsonism-dementia complex (PDC) contain intraneuronal-pairedhelical filaments composed of accumulated phosphorylated **tau** protein. **Tau** mRNA expression in rat neuronal cultures-normally modulated by glutamate-increases after treatment with

the aglycone of cycasin, a **cycad** -derived toxin whose concentration in

Chamorro food varies with disease incidence. Elevated **Tau** gene expression in vitro is coincident with increased cycasin-related DNA adducts and reduced DNA repair. Cycasin and endogenous glutamate may together promote the accumulation of **tau** protein and neuronal degeneration in Western Pacific ALS/PDC.

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... **cycad** toxin...

... **tau** messenger RNA...

... **tau** protein

8/3,K/4 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0011821471 BIOSIS NO.: 199900081131

Up-regulation of neuronal tau mRNA expression by the guam cycad neurotoxin MAM and glutamate

AUTHOR: Esclaire F (Reprint); Kisby G E; Lesort M (Reprint); Spencer P S;

Hugon J (Reprint)

AUTHOR ADDRESS: Neurobiol. Cell Pathol. Unit, Histol. Cell Biol. Dep., Fac.

Med., Univ. Limoges, 87025 Limoges, France**France

JOURNAL: Society for Neuroscience Abstracts 24 (1-2): p1717 1998 1998
MEDIUM: print

CONFERENCE/MEETING: 28th Annual Meeting of the Society for Neuroscience,

Part 2 Los Angeles, California, USA November 7-12, 1998; 19981107

SPONSOR: Society for Neuroscience

ISSN: 0190-5295

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

Up-regulation of neuronal tau mRNA expression by the guam cycad neurotoxin MAM and glutamate

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... tau protein

8/3,K/5 (Item 5 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0010355023 BIOSIS NO.: 199698822856

Substrate specificity and transglucosylation catalyzed by cycad beta-glucosidase

AUTHOR: Yagi Fumio (Reprint); Tadera Kenjiro

AUTHOR ADDRESS: Biochemistry Biotechnol., Fac. Agric., Kagoshima Univ., 1-21-24 Korimoto, Kagoshima 890, Japan**Japan

JOURNAL: Biochimica et Biophysica Acta 1289 (3): p315-321 1996 1996

ISSN: 0006-3002

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Substrate specificity and transglucosylation catalyzed by cycad beta-glucosidase

ABSTRACT: Initial rates of transglucosylation with diglucosides and diglucose-azoxyglycosides as acceptor by **cycad** beta-glucosidase were

tentatively obtained. The formation of beta-1,3 glucosidic linkage was

predominant, except for neocycasin A (**beta** -laminaribioside of methylazoxymethanol, MAM) as an acceptor. With neocycasin A as an acceptor, beta-1...

8/3,K/6 (Item 6 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0009824657 BIOSIS NO.: 199598292490

The cycad toxin MAM enhances neuronal tau mRNA expression produced by glutamate

AUTHOR: Esclaire F (Reprint); Kisby G E; Sindou P (Reprint); Lesort M (Reprint); Sweatt C; Spencer P S; Hugon J (Reprint)
AUTHOR ADDRESS: Cellular Neurobiol. Unit, Histol. Lab., Fac. Med., Univ.

Limoges, 87025 Limoges, France**France

JOURNAL: Journal of Cellular Biochemistry Supplement 0 (21B): p97 1995 1995

CONFERENCE/MEETING: Keystone Symposium on the Molecular and Cellular Basis

of Human Neurodegenerative Disease Breckenridge, Colorado, USA April 3-9,

1995; 19950403

ISSN: 0733-1959

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

The cycad toxin MAM enhances neuronal tau mRNA expression produced by glutamate

8/3,K/7 (Item 7 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0005112374 BIOSIS NO.: 198681076265

FORMATION OF THREE NEW TRISACCHARIDE-AZOXYGLYCOSIDES BY TRANSGLUCOSYLATION

BY CYCAD BETA GLUCOSIDASE

AUTHOR: YAGI F (Reprint); TADERA K; KOBAYASHI A

AUTHOR ADDRESS: LABORATORY BIOCHEMISTRY AND NUTRITIONAL CHEMISTRY, FACULTY

AGRICULTURE, KAGOSHIMA UNIVERSITY, KAGOSHIMA 890, JAPAN**JAPAN

JOURNAL: Agricultural and Biological Chemistry 49 (10): p2985-2990 1985

ISSN: 0002-1369

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

FORMATION OF THREE NEW TRISACCHARIDE-AZOXYGLYCOSIDES BY TRANSGLUCOSYLATION

BY CYCAD BETA GLUCOSIDASE

ABSTRACT: Three new trisaccharide-azoxyglucosides were formed from some azoxyglycocides by transglucosylation by a . **beta** .-D-glucosidase from

cycad seeds. These azoxyglycosides, named neocycasin H, I, and J, were

identified as O-.beta.-D...

8/3,K/8 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

11052220 Genuine Article#: 601GR No. References: 56

Title: The cycad neurotoxic amino acid, beta-N-methylamino-L-alanine (BMAA), elevates intracellular calcium levels in dissociated rat brain cells

Author(s): Brownson DM; Mabry TJ (REPRINT) ; Leslie SW

Corporate Source: Univ Texas, Sch Biol Sci, Dept Bot, Austin//TX/78712 (REPRINT); Univ Texas, Sch Biol Sci, Dept Bot, Austin//TX/78712; Univ Texas, Coll Pharm, Div Pharmacol & Toxicol, Austin//TX/78712; Univ Texas, Inst Neurosci, Austin//TX/78712

Journal: JOURNAL OF ETHNOPHARMACOLOGY, 2002, V82, N2-3 (OCT), P159-167

ISSN: 0378-8741 Publication date: 20021000

Publisher: ELSEVIER SCI IRELAND LTD, CUSTOMER RELATIONS MANAGER, BAY 15,

SHANNON INDUSTRIAL ESTATE CO, CLARE, IRELAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: The cycad neurotoxic amino acid, beta-N-methylamino-L-alanine (BMAA), elevates intracellular calcium levels in dissociated...

Abstract: Seeds of the Guam cycad *Cycas micronesica* K.D. Hill (Cycadaceae), which contain beta-methylamino-L-alanine (BMAA), have been...

...on Irian Jaya and the Kii Peninsula of Japan, and in all three areas the

cycad seeds are used either dietarily or medically. ALS-PDC is a complex of amyotrophic lateral...

...cells can lead to cell death and neurodiseases. Therefore, we evaluated

the ability of the cycad toxin BMAA to elevate the intracellular calcium concentration ([Ca²⁺](i)) in dissociated newborn rat brain...

...Ca²⁺ levels, these results suggest the involvement of a product of BMAA

and CO₂, namely a beta-carbamate, which has a structure similar to other excitatory amino acids (EAA) such as glutamate...

8/3,K/9 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

07957348 Genuine Article#: 229DL No. References: 38

Title: Toxic neuronal apoptosis and modifications of tau and APP gene and protein expressions

Author(s): Hugon J (REPRINT) ; Esclaire F; Lesort M; Kisby G; Spencer P

Corporate Source: UNIV LIMOGES, FAC MED, DEPT HISTOL & CELL BIOL, 2 RUE
DR

MARCLAND/F-87025 LIMOGES//FRANCE/ (REPRINT); OREGON HLTH SCI
UNIV,CTR

RES OCCUPAT & ENVIRONM TOXICOL/PORTLAND//OR/97201
Journal: DRUG METABOLISM REVIEWS, 1999, V31, N3, P635-647
ISSN: 0360-2532 Publication date: 19990000
Publisher: MARCEL DEKKER INC, 270 MADISON AVE, NEW YORK, NY 10016
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

**Title: Toxic neuronal apoptosis and modifications of tau and APP gene
and**

protein expressions

...Abstract: linking the induction of experimental neuronal apoptosis
in

vitro and the molecular pathology of the tau protein and amyloid
precursor protein (APP). In cultures exposed to mild glutamate
toxicity, tau mRNA expression, not beta-actin, is enhanced in
stressed neurons. The Guam cycad toxin metabolite

methylazoxymethanol

also produces an increase of <it> tau </it> gene transcription that
exacerbates changes induced by glutamate. In serumdeprived cultures
or

glutamate-exposed cultures, neurons committed to apoptosis have a
reduced <it> tau </it> gene expression, whereas resistant neurons
display a stable or even augmented tau mRNA expression

accompanied by

a persistent tau phosphorylation near serine 202. In the same
conditions, stressed neurons produce membrane blebbings strongly
immunopositive...

...fragments that are subsequently released in the extracellular space.

Experimental apoptosis in neurons can recapitulate tau and APP
modifications that could be associated with a selective

vulnerability

and a progression of...

8/3,K/10 (Item 1 from file: 71)

DIALOG(R)File 71:ELSEVIER BIOBASE

(c) 2004 Elsevier Science B.V. All rts. reserv.

01216181 1999190608

Damage and repair of nerve cell DNA in toxic stress

Kisby G.E.; Kabel H.; Hugon J.; Spencer P.

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Medicine, Oregon Health Sciences University, 3181 S.W. Sam
Jackson

Park Road, Portland, OR 97201, United States

EMAIL: kisby@ohsu.edu

Journal: Drug Metabolism Reviews, 31/3 (589-618), 1999, United States

CODEN: DMTRA

ISSN: 0360-2532

DOCUMENT TYPE: Conference Paper

LANGUAGES: English SUMMARY LANGUAGES: English

NO. OF REFERENCES: 149

...Guam, Irian Jaya, Indonesia, and the Kii Peninsula of Japan). A strong candidate is the **cycad** plant genotoxin cycasin, the beta-D-glucoside of methylazoxymethanol (MAM). We propose that prenatal or...

...in the presence of DNA damage and reduced DNA repair, enhances glutamate-modulated expression of **tau** mRNA in rat primary neurons; the corresponding protein (**TAU**) is elevated in ALS/PDC and Alzheimer's disease. These findings support a direct relationship...

8/3,K/11 (Item 1 from file: 164)
DIALOG(R)File 164:Allied & Complementary Medicine
(c) 2004 BLHCIS. All rts. reserv.

00253386 THE BRITISH LIBRARY: 0043132.

The **cycad neurotoxic amino acid, ss-N-methylamino-L-alanine (BMAA)**,
elevates intracellular calcium levels in dissociated rat brain cells
Brownson D; Mabry T; Leslie S
J Ethnopharmacol , VOLUME: 82, ISSUE: 2-3, PAGE: 159-67
2002

DOCUMENT TYPE: Journal Article LANGUAGE: English RECORD TYPE:
Abstract

DESCRIPTORS - Key Word : CALCIUM; BRAIN; PLANT EXTRACTS; AMYOTROPHIC
LATERAL SCLEROSIS; PARKINSON DIS; DEMENTIA;
SEEDS; METABOLISM; ADVERSE EFFECTS;
ETIOLOGY;
ASIA SOUTHEASTERN; PLANTS MEDICINAL
IDENTIFIERS - Entry Term: Cycas micronesica

The **cycad neurotoxic amino acid, ss-N-methylamino-L-alanine (BMAA)**,
elevates intracellular calcium levels in dissociated...

ABSTRACT: Seeds of the Guam **cycad** Cycas micronesica K.D.
Hill
(Cycadaceae), which contain beta-methylamino-L-alanine (BMAA), have
been...

...on Irian Jaya and the Kii Peninsula of Japan, and in all three areas
the
cycad seeds are used either dietarily or medically. ALS-PDC is a
complex
of amyotrophic lateral...

... cells can lead to cell death and neurodiseases. Therefore, we
evaluated
the ability of the **cycad** toxin BMAA to elevate the intracellular
calcium
concentration ((Ca(2+))(i)) in dissociated newborn rat...

... levels, these results suggest the involvement of a product of BMAA
and
CO(2), namely a **beta** -carbamate, which has a structure similar to

other
excitatory amino acids (EAA) such as glutamate...
? ds

Set	Items	Description
S1	86	RN=15920-93-1
S2	141203	TAU
S3	169624	A()BETA OR A-BETA
S4	309051	S2 OR S3
S5	2071	CYCAD
S6	2143	S5 OR S1
S7	42	S6 AND S4
S8	11	RD (unique items)